EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	47	("3650094" | "4032438" | "4055491" | "4076617" | "4126547" | "4280823" | "4475921" | "4523682" | "4561953" | "4673512" | "4743361" | "4759775").PN. OR ("5085783").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/02 14:45
L4	35	("5085783").URPN.	USPAT	ADJ	ON	2009/12/02 14:46
L5	0	210/748.01.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L6	0	210/748.02.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L7	0	210/748.03.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L8	177	demulsify	USPAT	ADJ	ON	2009/12/02 15:03
L9	1	demulsify$ device	USPAT	ADJ	ON	2009/12/02 15:06
L10	1628	210/748.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L11	66954	"422"/$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L12	66954	"422"/$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L13	66954	"422"/$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L14	30349	"205"/$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L15	89880	"250"/$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L16	66954	"422"/$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L17	408	134/109.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L18	484	134/108.ccls.	USPAT	ADJ	ON	2009/12/02 15:09

L19	0	("H001568").URPN.	USPAT	ADJ	ON	2009/12/02 15:10
L20	0	516/748.ccls.	USPAT	ADJ	ON	2009/12/02 15:11
L21	304	516/79.ccls.	USPAT	ADJ	ON	2009/12/02 15:11
L22	42	95/175.ccls.	USPAT	ADJ	ON	2009/12/02 15:12
L23	899	210/767.ccls.	USPAT	ADJ	ON	2009/12/02 15:24
S1	2	countercurrent ultrasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:36
S2	2667	210/748.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:38
S3	2	Gou, shequan.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:39
S4	2	da, jianwen.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:39
S5	2	zhang, yougui.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S6	181	han, ping.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S7	2	zhang, jingyi.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S8	254	516/113.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:41

S9	676994	(ultrasonic or transducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:44
S10	2	S6 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S11	2	S8 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S12	458	S2 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S13	0	S12 and ultrasonid transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:57
S14	89	S12 and ultrasonic transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:57
S15	4	S14 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:58
S16	21	210/728.ccls. and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:03
S17	47373	oil and water emulsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04
S18	47373	oil and water emulsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04

S19	1164	S18 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04
S20	114	S19 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:05
S21	27	S20 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:05
S22	41845	(oil with water emulsion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:07
S23	1054	S22 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S24	346	S23 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S25	27	S24 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S26	1	"5225089".PN.	USPAT; USOCR	ADJ	ON	2008/12/05 12:47
S27	33	("4055491" | "4280823" | "4398925" | "4523682" | "4673512" | "4759775").PN. OR ("5225089").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/05 12:48

S28	45	("4055491" | "4280823" | "4393708" | "4475921" | "4523682" | "4549435" | "4573356" | "4736815" | "4743361" | "4877516" | "4890268" | "5006266" | "5036944" | "5060651" | "5085783" | "5091893" | "5147562" | "5164094" | "5192450" | "5225089" | "5257676" | "5329496" | "5419877" | "5460181" | "5484537" | "5527460" | "5831166" | "5902489" | "6029518" | "Re33524").PN. OR ("6216538").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/06 17:45
S29	14	("6055859").URPN.	USPAT	ADJ	ON	2008/12/06 18:28
S30	9	("5688405").URPN.	USPAT	ADJ	ON	2008/12/06 19:05
S31	16	"5951456"	USPAT	ADJ	ON	2008/12/06 19:41
S32	15	("5951456").URPN.	USPAT	ADJ	ON	2008/12/06 19:49
S33	0	("6065949").URPN.	USPAT	ADJ	ON	2008/12/06 19:50
S34	66	516/195.ccls.	USPAT	ADJ	ON	2008/12/06 20:01
S35	0	252/349.ccls.	USPAT	ADJ	ON	2008/12/06 20:07
S36	0	252/796.ccls.	USPAT	ADJ	ON	2008/12/06 20:07
S37	100	204/157.42.ccls.	USPAT	ADJ	ON	2008/12/06 20:08
S38	1	("5717181").URPN.	USPAT	ADJ	ON	2008/12/06 20:14
S39	0	"157""."62".ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:05

S40	0	157/62.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:05
S41	209	204/157.62.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:06
S42	11	optical scissors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:24
S43	1052	optical tweezers	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:30
S44	27369	ultrasonic transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S45	8647	S44 and water	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S46	2218	S45 and oil	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S47	1399	demulsify	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 22:11
S48	12	S47 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 22:11
S49	0	countercurrent ultasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 11:41

S50	2	countercurrent ultrasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 11:41
S51	15	("1865433" | "2417722" | "3264213" | "3458140" | "3672823" | "3686115" | "3772188" | "3807563" | "3886064").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/13 12:07
S52	25	("4003832").URPN.	USPAT	ADJ	ON	2009/05/13 12:29
S53	0	"10569967"	USPAT	ADJ	ON	2009/05/13 13:02
S54	0	"10/569967"	USPAT	ADJ	ON	2009/05/13 13:02
S55	0	"10569967"	USPAT	ADJ	ON	2009/05/13 13:03
S56	8373	transducer and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:30
S57	1886	S56 and oil and water	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:31
S58	54	S57 and ultra$sonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:32
S59	47	S58 and concurrent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:35
S60	118	transducer and (concurrent and countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:36
S61	1	S60 and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:37

S62	2726	210/748.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S63	0	210/2968D.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S64	0	210/2968.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S65	255	516/113.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:57
S66	1	S65 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:57
S67	19	"5951456"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 14:08
S68	0	("6065949").URPN.	USPAT	ADJ	ON	2009/05/13 14:20
S69	15	("5951456").URPN.	USPAT	ADJ	ON	2009/05/13 14:21
S70	622	425/4R.ccls.	USPAT	ADJ	ON	2009/05/13 14:30
S71	18	S70 and transducer	USPAT	ADJ	ON	2009/05/13 14:30
S72	4521	oil and emulsion and transducer	USPAT	ADJ	ON	2009/05/13 14:33
S73	310	S72 and ultrasonic wave	USPAT	ADJ	ON	2009/05/13 14:33
S74	38	("2714186" | "3169013" | "3176964" | "3301535").PN. OR ("3614069").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/13 14:35
S75	39	("4120699").URPN.	USPAT	ADJ	ON	2009/05/13 14:39
S76	27	electrostatic desalting	USPAT	ADJ	ON	2009/05/13 15:22

S77	1289	transducer and "210"/$.ccls.	USPAT	ADJ	ON	2009/05/13 21:26
S78	67	S77 and standing wave	USPAT	ADJ	ON	2009/05/13 21:28
S79	34	("5085783").URPN.	USPAT	ADJ	ON	2009/05/13 21:55
S80	6	"5085783".pn. or "4743361".pn. or "5147562".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 22:13
S81	2	S80 and (oil or water)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 22:13

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L24	184	oil and emulsion and transducer.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:25
L25	0	countercurrent ultrasonic wave.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:29
L26	18	demulsify.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:30
L27	1	oil and demulsify and transducer.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:30
L28	1	transducer and (concurrent and countercurrent).clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:31
L29	3	("s44" and "s47").clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:31

12/2/2009 3:32:34 PM
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